

The 50 MHz DX Bulletin

Volume 19, Issue 3

March 2008

ISSN 1073-1024

The 50 MHz DX Bulletin was founded by Harry Schools K3HS. It is dedicated to the understanding and utilization of long distance propagation in the 6-meter Amateur band. The current editor and publisher is Victor Frank, K6FV. Subscription rates are \$24 U.S. first class mail, \$27 Canada/Mexico airmail, and \$30 by airmail elsewhere for 12 issues. Payments may be made to k6fv through PayPal. Circulation matters and DX reports should be sent to Victor R. Frank, K6FV, 12450 Skyline Blvd., Woodside, CA 94062-4554 USA. My Internet address is victor.frank@sri.com. My web site is <http://www.qsl.net/k6fv>. The bulletin may be freely quoted, provided that credit is given.

DX Operations

Most of the listings in this column came from OZ6OM's *50 MHz DX News*.

Guam, K1HP/KH2: Yoshi, JE2EHP, plans HF and 6m operation from April 18-21.

South Korea, HL4GHT: Kim is now on 2m EME after testing on 6m earlier this year. MMMonVHF Newsletter indicates "Seems the EME Virus did infect him totally now."

Nepal, 9N7JO: Stig, LA7JO, plans to be here on and off until June 30, and on 160-6m.

Timor, 4W6: Angel/EA1QF, Pere/EA3CUU, Jose/EA4DB, Eugene/EA4KA, Txema/EA5BWR, and Jose/CT1ERC will be active on HF and 6m (to which they will pay special attention) from Dili, Timor Leste for two weeks in June. Their callsign is not known yet.

Glorioso, TO4/G: An operation of "some weeks" starting sometime between May 5 and 9 has obtained permissions. The operators will be Pascal/F5PTM, Freddy/F5IRO, Sephane/F6KIN, David/F8CRS, Yves-Michel/F5PRU and maybe three others. They will try to have 3 to 4 stations, HF+6m on the air. Frequencies indicated were 50.096 Beacon/RX EU: CW 50.200, SSB 50.205, CW 50.101, SSB 50.123, WSJT-JT6M/JT44 50.245.

Afghanistan, T61AA: VK1UN, Ross, plans to get on 2m and 6m EME from grid MM57. He notes that the old YA prefix is no longer in use. Ross will be in Afghanistan for up to two years and is equipped with a Tokyo Hi-Power amplifier.

Qatar, A7/G0MKT: Bill, NM7H, plans 40-6m activity next month through mid-June.

Tunisia, 3V: Frank, DL8YHR, and Jose, EA7KW, plan to activate one of the most wanted squares on 50, 144, and 432 MHz the last week of June.

Jan Mayen, JX9JKA: LA9JKA, Svein, will be "very active" on SSB and digital modes on 160-6m from EU-022 between March 27 and October 8.

Jan Mayen Is., JX/G7VJR: Michael is scheduled to be QRV on 30-6m June 27-July 4. He will have a 100W radio, vertical antennas, and will be operating from a tent on generator power.

Aland Is., OH0/: Look for Hans/PA0VHA, Jack/PA3BAG, Steve/PA2A, Wim/PA2AM, Wil/PA3ALK, and Teun/PB5A to be active on 160-6m from May 24 to June 6.

Market Reef, OJ0: Eric/SM1TDE will be leading a team whose callsign is yet to be announced during the first week of June. They plan 160-2m operation.

Svalbard, JW/: Rene Hasper writes; PE1L and PA0ZH will be QRV June 2 to 15. On 6m they will have 100W and a 4 el Yagi fixed on Europe.

Wet Square, OH6ZZ: is making a VHF expedition to JP91 on June 7. This one is 70 km from Finland. The equipment list suggests primarily 2m activity, but perhaps 6m too.

Sable Is., CY0X: plans June 25-July 7 6m (50.117) activity, and requests do NOT send your grid square as it consumes valuable time during an opening. During a good opening they might activate a portable station in rare grid GN03.

Alaska, KL7DX: An IOTA HF and 6m DXpedition to Chuginadak Is., grid AO52, is planned for July 21-27.

Alaska, KL7/W6JKV: plans 6m operation from a mountain top (in BP64) 30 mi NE of Fairbanks with an outstanding view in all directions between June 18 and 30.

Bahamas, C6AYM: Eric, K9GY, plans HF-6m activity from Nassau, New Providence Island from May 21-26.

Grand Cayman, ZF2: Jim/K4BI and Mario/K2ZD plan 6m activity from Northwest Point (EK99gi) from June 20-July 8. Equipment includes a kw amp and 6M5X Yagi @ 48'. Beacon (and likely CW-OP) frequency will be 50.095.

Belize, V3: Dennis Motschenbacher, K7BV, plans a June/July DXpedition to two islands in the Caribbean. His first stop will be Caye Caulker Is., grid EKN57xr, from June 20 to 26.

Turks & Caicos Is., VP5: Bob, K0OK plans HF-6m activity from Providenciales Is. May 21-28. In the CQ WPX CW contest May 24-25 he will be using the call VP5E. On 6m he will be running 100W into a Pro III to a 6M7JHV at 30'.

Aruba, P40ZB: Garry Fisher, K9WZB, and his wife Sharon, K7WZB, plan 40-6m operation here May 6-15. On 6m they plan to monitor 50.125 continuously while working lower bands, and work both 50.100 and 50.125.

Barbados, 8P9TS: Darren, G0TSM will be on holiday in Barbados from May 21 to June 1. Although operating time will be limited, he will concentrate on 6m CW with an IC7000 with 100W and 5 el Yagi.

French Guyana, FY: TO3EME will be QRV from French Guyana May 1-7. F1BCS and F1HDI will be on Ile Royale in Les Iles du Salut. On 6m they will have a 2-el Yagi and 100W and on 2m they will have an array of four short Yagis.

50 MHz DX Toplist

Credits to DF6NA, <http://www.vhf-dx.net/top.html>

Sorted by grids worked, then DXCC countries.

QRB is greatest distance worked in km by Sporadic E.

Callsign	QTH	Grids	DXCC	WAS	QRBEs	Date
K1TOL	FN44VG	1320	173	50	8658	907
ON4GG	JO20AR	1185	231	48	9335	1007
DL7QY	JN59BD	1130	217	39	13267	607
EH8BPX	IL18SK	1046	189	45	8246	307
PA4PA	JO22QE	981	198	37	0	706
DL9USA	JO71EN	975	202	0	0	707
9A8A	JN86EH	967	203	36	8968	607
SP6GWB	JO80HK	906	182	29	8583	208
LZ2CC	KN23JG	905	247	32	9356	607
IZ5EME	JN52NS	902	191	30	8292	807
OZ3K	JO45TL	901	200	0	0	906
DL8PM	JO30BU	901	192	19	4917	207
OZ3ZW	JO54RS	886	176	16	3967	807
OK1DO	JO60JD	881	182	37	6100	706
DL6AMI	JO50QX	870	185	32	8136	707
ON4PS	JO20KQ	866	171	0	9352	607
SP4MPB	KO03HT	861	190	0	8290	707
K4QI	FM06JA	852	122	50	0	607
F8DBF	IN78RI	844	159	37	7903	807
OH7PI	KP32XG	785	148	36	11938	1107
S51DI	JN76VL	782	172	0	0	208
GD0TEP	IO74SD	781	161	0	4139	707
SP2MKO	JO93CB	775	151	0	0	807
DL1EJA	JO31DS	770	169	34	9303	107
OK1FD	JO60CF	764	180	0	7450	807
DL2NO	JO43KM	764	163	33	0	907
OZ1IEP	J055XU	762	147	0	5832	208
EH9IB	IM85NG	758	173	28	0	906
DL7ARM	JO62RJ	737	155	0	13892	807
YT1VV	JN94US	736	167	0	5494	308
IW5DHN	JN53GI	726	181	0	9326	707
G4RGK	IO91ON	723	184	32	0	807
IW1AZJ	JN35UB	720	180	23	9835	307
OZ1BNN	JO55PM	718	143	12	0	1207
F5DE	JN05DP	717	163	36	3638	1106
DG5YIL	JO32KB	695	155	32	3255	707
IV3SIX	JN65RU	685	188	0	0	507
DL7FF	JO62TJ	681	134	16	2980	807
LZ1AG	KN22ID	680	173	21	9795	107
SP6MLK	JO80	680	143	0	0	1107
OZ8ZS	JO55RT	671	134	0	8361	907
SP6NVN	JO81CJ	663	132	0	0	807
DL4ALI	JO50JW	657	136	19	0	307
DJ6XV	JO31LQ	629	127	17	7314	1007
PA3ECU	JO32CF	618	137	33	0	606
DL7ANR	JO62PM	616	120	0	0	1207
YU1HQR	JN94US	608	132	0	10698	108
CT1FJC	IM57OC	584	136	0	8109	108
NP3CW	FK68WL	582	107	50	13533	108
ES6RQ	KO28WA	566	114	0	8451	806
K1JT	FN20QI	561	90	50	5560	906
IK5YZW	JN53FU	540	166	21	0	806
S51ZO	JN86DR	540	134	0	8700	108
DJ4TC	JO63PN	538	118	0	0	707
LY2SA	KO14LL	523	116	8	4031	1007
YU7EF	KN04HV	522	133	8	0	108
K0KP	EN36VW	522	52	50	0	806
DG1VL	JO61WE	505	100	0	4697	807
HA8CE	KN06EN	502	93	2	0	807
OE5MPL	JN78CJ	496	98	0	3402	1107
OZ7IS	JO65DQ	486	128	0	0	1207
MW0HVM	IO71XT	476	89	4	7375	807
VA6SZ	DO33AP	474	25	50	5000	1206
DK3WG	J072GI	472	88	5	8960	308
2W0CDJ	IO71XT	471	85	0	7375	806
DF6NA	JN49XS	470	85	20	11993	606
WP3UX	FK68UF	469	99	21	9932	408
EI7IX	IO53FT	465	119	25	8113	707
IK1PAG	JN35SB	454	89	0	8005	907
OZ2PBS	J055XJ	435	75	0	0	108
F1BRV	JN16MX	426	90	17	2610	507

Callsign	QTH	Grids	DXCC	WAS	QRBEs	Date
PE2PE	JO21LU	425	95	0	7481	907
HB9SJE	JN47JO	423	95	0	0	606
HA3HV	JN86UK	414	79	0	9236	707
G8HGN	JO01FO	412	75	11	9842	807
DL3YEE	JO42GE	404	91	6	3365	707
OH4LA	KP20LG	362	69	5	4257	108
SP1MVG	JO73FJ	352	71	1	10684	1207
PA3EAQ	JO31CI	351	75	4	5113	1207
DL1SUZ	JO53UN	346	72	0	5921	307
DL4KG	JN48OU	346	66	8	3190	108
PE1BTX	JO22XW	340	70	0	0	906
OM7AQ	JN98UI	321	69	0	0	907
DK2BJ	JO30BS	320	60	2	5530	308
EB1EWE	IN53SC	319	63	15	6710	807
EB1EHO	IN73DM	319	61	0	6048	806
OK2PM	JN99AO	299	58	11	3749	1107
SK6HD	JO68SD	295	55	0	7814	806
EA1EJB	IN73FL	294	69	7	6060	907
LZ4KK	KN23XU	294	64	0	9048	807
DH6DAO	JO41CN	283	52	0	3286	108
EH7BYM	IM66UM	281	60	3	0	807
EA7BYM	IM66UM	281	60	3	0	108
DL1SUN	JO53PN	279	48	0	0	108
OM3BC	JN98VG	276	56	0	8415	707
SM6WET	JO68SE	257	59	0	0	806
HB9WNM	JN47JL	256	53	0	3998	606
DG0DRF	JO71JJ	251	46	0	3630	807
PA3DZL	JO21HM	247	52	4	3241	1106
N50MG	EL49VW	244	21	48	0	208
DG1AAE	JO52LD	243	39	0	27	707
SP7SZW	KO01AM	237	141	0	0	108
GW3ILF	KP04NP	196	37	0	4693	308
N3TEE	FM29DO	177	11	38	0	607
DK2YCT	JO32RG	174	45	0	0	1007
DJ8ES	JO43SX	173	45	0	3550	1206
DH4FAJ	JN49EX	156	50	0	5699	1007
N1RR	FN41HU	135	35	40	0	707
HA8MV	KN06GU	119	39	0	3878	507
LA6CF	JO49OG	115	29	0	3556	706
DB9UH	JN49WS	110	35	0	2042	706
F1CXX	JN18AT	103	0	2	5921	707
HA4WQ	JN97IF	18	14	0	2295	806
PF7M	JO22PG	0	189	0	0	705
M0BCG	IO91DO	0	184	0	0	1006
IK0NOJ	JN61GV	0	172	0	0	705
G8BCG/P	IO70RK	0	170	0	0	705
ON4IMM	JO11UB	0	148	0	0	805
KM07JS	JO03AE	0	146	0	0	705
G4DEZ	JO03AE	0	131	30	0	705
DL2DR	JO31TO	0	126	0	0	1007
UX0FF	KN45KJ	0	123	0	0	104
KE4WBO	EL96VW	0	119	48	8000	104
DC9YC	JO31PJ	0	119	0	0	805
US5CCO	-	0	118	0	0	104
UU4JO	KN74	0	100	0	0	104
VE3CDP/W9	EM58AV	0	97	50	0	705
S54M	JN86CL	0	97	0	3426	805
VE2PEP	FN46IB	0	95	50	0	1204
W4VC	EM81TG	0	75	48	0	705
W3UR	FM19LG	0	68	49	0	705
ES5RY	KO38JI	0	62	0	0	805
F4BYF	IN97JL	0	56	0	0	905
PE1OID	JO33KI	0	56	0	0	705
G7CNF	IO81RE	0	54	0	6628	705
CT1ESJ	IN60KI	0	40	0	143	605
HA1FV	JN87JJ	0	35	0	2300	805
DL44UC	JO45WV	0	0	50	0	1105
MW1MFY	JO81FL	0	0	0	0	1005
CF4CR	GF15wc	0	0	0	0	805
OZ8AFC	JO45WV	0	0	0	0	805

March 2008 DX Reports

The following reports of 50 MHz DX propagation are courtesy of K6QXY and postings on the Internet including OH2AQ and the VK/ZL reflectors. G4UJP and JA1VOK reported no DX in February. Apologies to any sources I may have inadvertently neglected.

Listings obtained from the OH2AQ reflector may include distances in kilometers, determined preferentially from the grids in the post, and otherwise from one or both of the prefixes of the calls. Note that the latter results in VERY rough approximations to the distances, especially for large countries and call areas.

Listings from the vk logger already have six digit grids and distances in kilometers. These have usually been shortened to fit in the available space.

The first entry is *mmdhhi*, where *mm* is the month, *dd* is the day of the month, *hh* is the hour UTC, and *ii* is the minutes after the hour. The year is understood to be 2008. Symbols just before the call of the reporting station include: V=Video Carrier, I=Inband video sidebands, F=FM audio, B=beacon, C=CW, J=Digital, typically JT6M or JT65A for EME, R=RTTY or repeater, S=SSB, W=mode not mentioned (or both CW & SSB), H=heard only, BSc = backscatter, Sc = scatter, MS = meteor scatter, TR = tropo.

Reporting station include: V=Video Carrier, I=Inband video sidebands, F=FM audio, B=beacon, C=CW, J=Digital, typically JT6M or JT65A for EME, R=RTTY or repeater, S=SSB, W=mode not mentioned (or both CW & SSB), H=heard only, BSc = backscatter, Sc = scatter, MS = meteor scatter, TR = tropo.

Reports of Africa

CANARY IS.

03161407 EA8AHH CW 1464 50.-110 CU3EQ
MAURITANIA
 03210523 5T5DC 599 WRD 3622 53.-514 I8MTQ
 03261159 5T5DC CQ 3442 50.-110 ON6NL
MOROCCO
 03281456 CN8MC 559 BSc 285 50.-027 CT1FFU
SAO TOME
 03161022 TR8CA 50.-080 B
 03161407 S9SIX 222 50.-135 ON7VHF
ZAIRE
 03041633 9Q1D 529 TEP 5194 50.-021 CT1FFU
Chinese TV
 03260506 CHINA 57 PN53 7416 49.-750 T VR4BKP
 03290633 R1TV 41 OM34NI 8382 49.-750 T VR4CZ
 03290811 BY/TV >DU7 50.-001 I PA0HIP/
 03310944 BY/UATV >DU7 50.-001 I PA0HIP/

03161022 ON5LGS 1779 50.-135 ON4PJA
 03161032 ON5LGS 1779 50.-135 ON4JER
ZAMBIA
 03161040 ON5LGS WEAK>JN65 889 50.-155 ON4WRC
 03161058 ON5LGS 1779 50.-140 ON4JER
 03252120 EDMOND 1922 50.-190 ON5LGS
BELGIUM
 03160804 OT7X JO10>J001 213 50.-147 G3VVF
 03161040 ON5LGS 1779 50.-155 ON4JER
 03161058 ON5LGS 1779 50.-140 ON4JER
 03252120 EDMOND 1922 50.-190 ON5LGS
BELGIUM
 03161022 ON5LGS 1779 50.-165 PA2DX
 03161032 ON5LGS 1779 50.-155 F5UMP
 03161040 ON5LGS 1779 50.-140 S57RR
 03161058 ON5LGS 1779 50.-180 DJ6XV
 03252120 EDMOND 1922 50.-190 G7RHF

03161022 ON5LGS 1779 50.-165 PA2DX
ESTONIA
 03191953 ES3RF
 03231354 ES3RF GENA 1350
 03271806 ES1CW AU
FAROE ISLANDS
 03081744 OY3JE -25DB EME 6726 50.-190 J W7GJ
 03091904 OY3JE -25DB JAN 50.-227 J UT3UA
 03141644 OY6BEC 52A 1347 50.-035 OZ1DJJ

03161008 OR0A HCC 1578 50.-121 ON6ZK

03260552 JA2IGY 519 PM84JK 6310 .010 B VK4BKP
CRETE
 03260610 JR2HCB 219 PM85CB 6390 .110 C VK4BKP
 03270645 JR6EXN 41 PM53GH 6362 .130 S VK4BKP
 03270713 JA1RJU 55 PM95 6381 .50 .140 S VK4BKP
 03270714 JA2IGY 519 PM84JK 6310 .010 B VK4BKP
 03270714 JE7YNO 519 PM07 6569 .50 .027 B VK4BKP
 03270732 JA6YBR 519 PM51RT 6176 .017 B VK4BKP
 03290548 JA2IGY 519 PM84JK 6310 .010 B VK4BKP
 03290610 JH3LBD 59 PM74 5858 .50 .150 S VK4SIX
 03290624 JA6YBR 519 PM51RT 6176 .017 B VK4BKP
 03290850 JR2XEZ 599 DUT/PA0HIP .180 PA0HIP/
 03310820 JE7YNO 599 >DU7 9341 50.-027 B PA0HIP/

03132019 0Z25AGQ JO65>RP24 1198 .233 J OH8A
CROATIA
 03251904 9A5CW MS JN65>J055 1120 102 C OZ82S
 03281152 9A8A WEAK ES 1498 50.-230 G3VVF

DENMARK

03132019 0Z25AGQ JO65>RP24 1198 .233 J OH8A
 03132115 0Z1DJJ BO 50.-234 J SMOEPO
 03151103 0Z1MFPP CQ JT6M 1086 .50.-230 M1BXF
 03151138 0Z1BNN JT6M 1868 .50.-230 UT3UA
 03151185 0Z1MFPP CQ JT6M JORGEN 975 .230 OH8A
 03161116 0Z1DJJ -22DB EME 1347 .204 J OY3JE
 03200916 0Z1DJJ JT6M 903 .50.-230 OH7HXH
 03200916 0Z1DJJ JT6M 908 .50.-225 HA2RD
 03221050 0Z25I1Q 1218 .50.-230 C 9A5CW
 03251902 0Z25S MS 1364 .50.-102 C 9A5CW
 03252145 5096 JT6M MATT 1303 .50.-236 J EI2IP
 03271908 0Z1DJJ BO CO-AU 260 .50.-100 DL5XJ
 03271939 0Z2CQ STRONG KIM 222 .50.-099 DL5XJ
 03272308 0Z1DJJ 53A JO65HP>J048KM 960 .230 LA8NK
 03310939 0Z2AGJ JT6M 1086 .50.-230 G3VVF

ENGLAND

03061029 G3VVF JT6M MS MIKE 1562 .230 J SP9HWY
 03081406 G1OAR JT6M 260 .50.-100 DL5XJ
 03132026 G3VVF JT6M 903 .50.-230 J SP3IQ
 03132126 G3VVF JT6M 1172 .50.-230 LA8NK
 03142326 G3VVF JT6M 1172 .50.-230 J SP3IQ
 03151020 G1OAR IO825Q>J048KM 960 .230 LA8NK
 03162044 G1OAR IO825S>J048RM 960 .230 LA8NK
 03171148 G3VVF JT6M 1355 .50.-230 J HA2RD
 03201853 G3VVF JT6M 1355 .50.-230 J OY3JE
 03220712 G3VVF MIKE 1562 .230 J SP9HWY
 03222223 G4IIGO -23DB EME 1355 .50.-205 OY3JE
 03230857 G1OAR IO825Q>JN78CJ 1266 .230 J OE5MPL
 03230919 G4PC1 I091A1>JN78CJ 1203 .230 J OE5MPL
 03132109 G4PC1 1242 .50.-230 J EA2BJM
 03232045 G4PBP JT6M 1491 .50.-230 J SP9HWY
 03240907 G1OAR IO825Q>JO90NH 1510 .230 J SP9HWY
 03241406 N5BXB VY WEAK 711 .50.-155 PE2HHN
 03281133 G3VVF FB SIG 1498 .50.-230 H 9A8A
 03281141 G3VVF FB BURTS .50.-230 J HA2RD
 03291041 GOCHE I091A1>JN73 853 .50.-230 J EB1EHO
 03291942 G4DE2 JT6M 754 .50.-230 OZ1HUF
 03292001 G3VVF JT6M MIKE 1172 .50.-230 LA8NK
 03292055 G4DE2 JO0324>J048KM 808 .230 J LA8NK
 03300724 G3VVF JT6M MIKE 1562 .50.-230 SP9HWY
 03301251 G4DE2 CQ JT6M 364 .50.-230 PA2V
 03310940 G3VVF JO01>J047 842 .50.-230 OZ5AGJ

Reports of Europe

KOREA, S.

03290853 HL2KV 599 DUT>PA0HIP 50.-110 PA0HIP/

RUSSIAN FEDERATION

03090327 UA0-TV 58 PN53 7416 49.-750 T VK4BKP.

ALAND IS.

03132122 OH0JFP 559 656 50.-190 OZ1DJJ

03132157 OH0JFP KP00AAB>JP50JA 513 LA4LN

03310939 0Z2AGJ JT6M 1086 .50.-230

AUSTRIA

03131935 OE5MPL JN78CJ>JP50JA 1310 LA4LN

03132000 OE5MPL PETE 794 50.-234 SM0EPO

032110728 OE5MPL JN78CJ>JO01FN 1042 G3VVF

03211111 OE5MPL JT6M MS 1361 .50.-225 J G4ANA

03230916 OE5MPL JN78CJ>JO91A1 1203 G4PC1

03230957 OE5PML JT6M 1485 50.-230 UT3UA

03232044 OE5MPL JT6M 1936KM 50.-228 OH7HXH

03310832 OE5MPL JT6M PETE 1262 .230 J G3VVF

BELGIUM

03160812 ON5LGS JO10>J001 213 50.-155 G3VVF

03160834 ON4JER 1779 50.-144 PA3EVY

03160838 ON4IQ 1779 50.-165 PA2XHF

03160844 ON4WRC 1779 50.-140 PA3EVY

03160845 ON4IQ 2007 50.-140 PA3EVY

03160859 ON6BR 1779 50.-123 PA3EVY

03160908 ON7XT 1779 50.-169 PA3EVY

03160917 ON7EG 1779 50.-193 PA3EVY

03160919 ON7KZ 1779 50.-133 S57RR

03160924 ON7EG IN/OUT>JN65 889 50.-135 PA3EVY

03160928 ON7VHF 1779 50.-140 DD0UM

03160935 ON4IQ J3E 1394 50.-140 S57RR

03160941 ON4IQ GD SIG 1053 50.-140 OR7S

03161014 ON7QC 1578 50.-180 OR7S

03161015 ON1DNF 1578 50.-148 OR7S

03161015 ON4PJA 1578 50.-197 OR7S

03161022 ON4JER 1779 50.-165 PA2DX

03161032 ON5LGS 1779 50.-155 F5UMP

03161040 ON5LGS WEAK>JN65 889 50.-155 S57RR

03161058 ON4WRC 55 JO31LQ>JO10 306 DJ6XV

03252120 EDMOND 1922 50.-190 G7RHF

CHINESE TV

03260506 CHINA 57 PN53 7416 49.-750 T VR4BKP

03290633 R1TV 41 OM34NI 8382 49.-750 T VR4CZ

03290811 BY/TV >DU7 50.-001 I PA0HIP/

03310944 BY/UATV >DU7 50.-001 I PA0HIP/

CHINA

03160804 OT7X JO10>J001 213 50.-147 G3VVF

03160904 OR0A 1578 50.-127 ON6ZK

03160921 OT3C 1779 50.-126 PA3EVY

JAPAN

03110443 JE7YNO 519>QG480V 6569 .027 B VR4BKP

03151014 JH0MHE -24DB EME 8747 .204 OY3JE

03160921 OT3C 1779 50.-126 PA3EVY

March 2008 DX Bulletin

03160246 OY7JE JT65A EME 50.204 J K6QXY 03161109 OY3JE JT65A EME 1347 50.204 O21DJJ 03201817 OY3JE IP620A>O42 50.230 DK1XAM 03201904 OY3JE IP620A>J001FN 1241 G3VYF 03262117 OY6BEC 55A IP620A 1690 .335 B OG2M 03262124 OY6BEC 57A >J067JQ 1213 .335 B SM6CNN 03262143 OY6BEC 55A 1347 50.035 B O21DJJ 03271155 OY6BEC 53A>I075 793 50.035 MM0AMW 03272118 OY6BEC 55A-57A 1347 50.035 O21DJJ 03281617 OY6BEC 57A 971 50.035 LA8NK 03281625 OY6BEC 57A 1347 50.035 O21DJJ 03310806 DF0ANN JN59PL>JN78CJ 244 B OESMPL 03310824 DF0ANN JN59PL>JN78CJ 244 B OESMPL 03311325 F6FHP JN19>IN94 633 50.205 F6EBH	03021209 F8EMH >JO42CC 770 55.000 DO3YMW 03131409 FEEBH JT6M MS 1245 50.230 J SM7CMV 03161042 F5UMP 1109 50.200 OT7E 03291325 F6FHP JN19>IN94 633 50.205 F6EBH	03022154 LX1FX JT6M-MS 780 50.233 SM7CMV 03031113 LX05IX 219 JN39BF 598 .023 B OE5MPL 03031200 LX05IX 329FR JN39>J050 306 B DR2EA 03241203 LX05IX LOUD Es>JN39AV 523 B DL7CS
FRANCE	GERMANY	NETHERLANDS
03011619 OH8A JT6M MS 765 50.233 J LA4ANA 03151643 OH8A KP24HP>J090NH 1625 233 SP9HWY 03012111 OH8A JT6M MS 903 50.233 OZ1DJJ 03012129 OH8MKG KP23PQ>J065HP 1138 50.230 DL5XJ 03022034 OH8A JT6M 933 50.230 J LA8NK 03031702 OH8A & 2201 933 50.230 LA8NK 03062105 OH8MKG KP23PQ>J048RM 1047 50.230 LA8NK 03092234 OH3MF 57A 897 50.099 SM2DR 03131944 OH8VY KP22UN>J090NH 1418 50.067 SM2DR 03131947 OH8A MS KP24>J090 1614 .233 J SP9HWY 03132003 OH8A JARI 991 50.233 J OZ3ZW 03132022 OH6NG CQ NAC 897 50.095 SM2DR 03132041 OH8A 897 50.233 J SM0EPO 03142230 OH8MKG KP23PQ>J048RM 1047 J LA8NK 03151439 OH7HXH JT6M-MS KARI 897 233 J SP9HWY 03151519 OH7HXH JT6M KARI 1190 .233 J SP9HWY 03151653 OH8HTG JT6M CADDIS 933 .227 J LA8NK 03151731 OH7HXH JT6M KARI 933 50.222 J LA8NK 03151738 OH8HTG 897 50.227 SM0EPO 03151741 OH7HXH KP53>J059 1144 .230 LA4ANA 03151913 OH7HXH JT6M 975 50.235 J OZ1BNN 03152128 OH8MKG KP23PQ>J048RM 1047 J LA8NK 03160920 OH8HTG KP34DI>J090NH 1616 50.230 SP9HWY 03161649 OH7HXH JT6M-MS KARI 897 230 J SM7CMV 03161724 OH7HXH JT6M 933 50.230 J LA8NK 03162001 OH8A CQ 933 50.230 SP9HWY 03191954 OH7HXH KP53HG>KO291F 75.5 ES3RF 03200916 OH7HXH JT6M MS 903 50.230 OZ1DJJ 03200942 OH7HXH KP53>J042 1765 .230 J DK1XAM 03220124 OH7HXH KP52HG JT6M 1383 230 J OZ1BNN 03201805 OH7HXH JT6M 1694 50.230 J OY3JE 03220855 OH7HXH KARI 50.230 SP9HWY 03242210 OH3MB JT6M MS 1190 50.230 J SP9HWY 03261820 OH5RAC AURORA 50.102 CQ 928S 03271246 OH9SIX AURORA 54A 1422 .50.067 B SM2DR 03272119 OH8A KP24HP>JN78CJ 1910 230 0E5MPL 03272128 OH8A CQ 933 50.230 LA8NK 03272185 OH9SIX AUR 659 50.067 B OH7HXH 03281443 OH9SIX AUR 659 50.067 B OH7HXH 03281827 OH7HXH KP53>KP04 496 50.099 SM2A 03161252 IW5DHN -18DB EME 2413 .204 J SM7CMV 03161252 IW5DHN -18DB EME 2413 .204 J SM7CMV 03210736 I6BQI JN72AK>J001FN 1441 G3VYF 03221716 I0XJ 539TR>JN65 467 50.004 B S57RR 03221809 I0VH 55TR>JN65 467 50.155 S57RR 03261647 I6BQI MS 1309 50.230 PBOAHX 03291051 IK4GBU MS VALERIO 1053 .230 J GIOAR 03301708 OH8A JT6M JARI 1190 50.230 SP9HWY 03302004 OH8A JT6M 933 50.230 J LA8NK	03081414 PA7TA JT6M 712 50.230 J LA8NK 03091132 PA7TA J033>J090 902 50.230 J SP9HWY 03112154 PA7TA TH1JS 619 50.230 J SM0EPO 03162041 PA7TA J07FA >2DB EME 7987 50.190 J W7GJ 03200845 PA7TA JT6M 530 50.230 OZ1BNN 03231348 PA7TA MS 1091 50.225 OH7HXH 03241533 PA7TA JT6M MS 961 50.230 LA4ANA	03081413 PA7TA J07FA >J090 902 50.230 J PA7TA 03131914 PA7TA TH1JS 619 50.230 J SM0EPO 03131957 LA4LN JP50JA>J090NH 1199 50.230 G1OAR 03151027 LA8NK JO48RM>J082SQ 960 230 G1OAR 03151811 LA7VH JT6M 765 50.230 OH7HXH 03160908 LA7VH JT6M 1274 50.230 J UZ5DU 03162019 LA8NK JT6M 933 50.230 J OH8A 03172145 LA8ANA ROBERT 50.230 J PA7TA 03222308 LA8NK 55A JO48RM>J065HP 100 0Z1DJJ 03281753 LA7VH AU 568 50.100 SM6CNN 03290923 LA4ANA JO59>J073 1161 50.230 GW8IZR 03292010 LA8NK JT6M 1172 50.230 J G3VYF 0329243 LA8NK JT6M TOR 933 50.230 J OH8A
FINLAND	GERMANY	NORWAY
03011619 OH8A JT6M MS 765 50.233 J LA4ANA 03151643 OH8A KP24HP 257 50.230 J SM0EPO 03201813 DK3WNG JT6M 1146 50.235 OY3JE 03211705 DK3WNG JT6M 1146 50.230 OY3JE 03271938 DL5XJ 222 50.099 OH8A 03300808 DK1MAX CQ 1146 50.099 OH3XW 03310107 H1BV8 29TR&MS JN87FT>J050 B DR2EA 03011708 H1BV8 579 JN87FT>J001FN 50.230 G3VYF 03011709 H1BV8 579 JN86YK>J090IR 50.230 B G1RAU 03011709 H1BV8 579 JN86YK>J090 1452 50.007 B GOCHE 03021920 H1BV8 599 JN86YK>JN88FF 50.230 B G1RAU 03031051 H1BV8 559 JN86YK>JN78CJ 346 0E5MEL 03151443 H1BV8 519 JN86YK>JN78CJ 451 DR2EA 03171141 HA2RD CQ JT6M 1814 50.230 G3VYF 03191119 H1BV8 329TR JN87FT>J050 B DR2EA 03201452 H1BV8 519 JN86YK>J0801K 50.230 B SPMLK 03241208 H1BV8 329TR JN87FT>J050 530B DR2EA 03241545 H1BV8 519 JN86YK>J0801K 451B SPMLK 03261105 H1BV8 329TR JN87FT>J050 B DR2EA 03261318 H1BV8 519 JN86YK 451 .007 B SPMLK 03271424 H1BV8 519 JN86YK>J0801K 451 .007 B SP6MFK 03280837 H1BV8 519 JN86EH 50.007 B 9A8A 03290945 H1BV8 519 JN86YK>JN78CJ 0E5MPL 03291033 H1BV8 519 JN86YK>JN78CJ 0E5MPL 03310807 H1BV8 559 JN86YK>JN78CJ 346B OESMPL	03081413 PA7TA J07FA >J090 902 50.230 J PA7TA 03131914 PA7TA TH1JS 619 50.230 J SM0EPO 03131957 LA4LN JP50JA>J090NH 1199 50.230 G1OAR 03151027 LA8NK JO48RM>J082SQ 960 230 G1OAR 03160908 LA7VH JT6M 765 50.230 OH7HXH 03162019 LA8NK JT6M TOR 933 50.230 J OH8A 03222308 LA8NK 55A JO48RM>J065HP 100 0Z1DJJ 03281753 LA7VH AU 568 50.100 SM6CNN 03290923 LA4ANA JO59>J073 1161 50.230 GW8IZR 03292010 LA8NK JT6M 1172 50.230 J G3VYF 0329243 LA8NK JT6M TOR 933 50.230 J OH8A	
GREECE	HUNGARY	POLAND
03011619 OH8A SV1SIX 529 KM17>J071 1678 B DH2UAK 03020744 SV1OE 529 50.110 SV8CS	03011017 H1BV8 29TR&MS JN87FT>J050 B DR2EA 03011708 H1BV8 579 JN87FT>J001FN 50.230 G3VYF 03011709 H1BV8 579 JN86YK>J090IR 50.230 B G1RAU 03011709 H1BV8 579 JN86YK>J090 1452 50.007 B GOCHE 03021920 H1BV8 599 JN86YK>JN88FF 50.230 B G1RAU 03031051 H1BV8 559 JN86YK>JN78CJ 346 0E5MEL 03151031 H1BV8 319TR JN87FT>J050 530B DR2EA 03151443 H1BV8 519 JN86YK>JN78CJ 451B SPMLK 03171141 HA2RD CQ JT6M 1814 50.230 G3VYF 03191119 H1BV8 329TR JN87FT>J050 B DR2EA 03201452 H1BV8 519 JN86YK>J0801K 50.230 B SPMLK 03241208 H1BV8 329TR JN87FT>J050 530B DR2EA 03241545 H1BV8 519 JN86YK>J0801K 451B SPMLK 03261105 H1BV8 329TR JN87FT>J050 B DR2EA 03261318 H1BV8 519 JN86YK 451 .007 B SPMLK 03271424 H1BV8 519 JN86YK>J0801K 451 .007 B SP6MFK 03280837 H1BV8 519 JN86EH 50.007 B 9A8A 03290945 H1BV8 519 JN86YK>JN78CJ 0E5MPL 03291033 H1BV8 519 JN86YK>JN78CJ 0E5MPL 03310807 H1BV8 559 JN86YK>JN78CJ 346B OESMPL	03061036 SP9HWY JUREK 1562 50.230 J G3VYF 03091522 SP9HWY JUREK 707 50.230 J SM0EPO 03132009 SP9HWY J090NH>JP50JA 1199 50.222 J SM0EPO 03132053 SP9HWY JUREK 707 50.230 J G3VYF 03132053 SP9HWY JUREK 707 50.230 J G3VYF 03132159 SP9HWY JT6M 1550 50.230 OH7HXH 03160836 SP9HWY J090NH>J048RM 1125 50.230 J G3VYF 03212020 SP9HWY JT6M JUREK 1190 50.230 J OH8A 03222020 SP9HWY JT6M JUREK 1562 50.230 J G3VYF 03222083 SP9HWY JT6M JUREK 1190 50.230 OH7HXH 03300727 SP9HWY JT6M JUREK 50.230 OH7HXH 03301708 SP9HWY JT6M JUREK 50.230 J OH8A
ITALY	IRELAND	PORTUGAL
03081509 I0XJ 539TR>JN65>JN61 467 B S57RR 03132216 I0VHL JN62IR>J075AM 1425 SM7CMV 03161252 IW5DHN -18DB EME 2413 .204 J SM7CMV 03210736 I6BQI JN72AK>J001FN 1441 G3VYF 03221716 I0XJ 539TR>JN65 467 50.004 B S57RR 03221809 I0VH 55TR>JN65 467 50.155 S57RR 03261647 I6BQI MS 1309 50.230 PBOAHX 03291051 IK4GBU MS VALERIO 1053 .230 J GIOAR 03301052 IZ1EP 686 50.150 IS05WW	03171154 EI2IP 339 IO61 50.097 DG1CMZ 03201904 EI2IP JT6M 1040 50.230 OY3JE	03071144 CT1ART 529>IL28FC 1313 .037 B EA8AVI 03072239 CS1RLA 579>IL28FC 1313 .076 B EA8AVI 03131013 CT1ART 589>IL28 1246 50.036 B EA8AVI 03142210 CT1ART 589>IL28 1246 50.036 B EA8AVI 03161253 CT1ART 53 IM7HE 50.037 B ZB3B 03161256 CT1ART 579>IL28 1246 50.036 B EA8AVI 03162255 CT1ART 53 IM7HE 50.037 B ZB3B 03162255 CT1ART 529>IL28 1246 50.036 B EA8AVI 03181942 CT1ART 549 1762 50.036 B EA8AVI 03211545 CT1FFU CQ 2251 50.111 DK1MAX 03221042 CT1ART 41 IM76HE 50.037 B ZB3B 03222044 CT1ART AUDIBLE 50.037 B ZB3B 03282229 CT1ART 559>IL28FC 1313 .036 B EA8AVI

ROMANIA
03231152 Y05PCX PINGS 1554 50.145 IW4BET
03291000 Y03BL CQ CW 200 50.110 L24KK

SARDINIA
03291011 ISOGQX JT6M BRUNO 1567 230 J G3VYF
03291051 ISOGQX JM49OH>IN73DM 1326 EB1EHO
03291111 ISOGQX JT6M MS BRUNO 1567 J G0CHE
03291152 ISOGQX JM49>IM99 50.230 EA5EF
03301339 ISOSWW JO32KF 50.150 PE2HHN

SCOTLAND

03071556 MM0AMW -26 EME 50.190 J W7GJ
03291051 ISOGQX -21DB EME 50.190 J W7GJ
03151938 GM4WJA UT50QH>JN48KM 891 LABNK
03230848 MM5AJW IO88KI>JN78CJ 1587 OEMPL

SERBIA
03231350 YU1ACR PINGS 574 50.100 H SP6MLK
03241535 YU1ACR TR/MS 574 50.100 SP6MLK

UKRAINE

03081113 UZ5DU &1213 1182 50.230 LA8NK
03100823 UT3UA K050>J090 50.230 SP9HNY
03132109 UZ5DU KN18MD>JP50JA 1537 LA4LN
03151107 UZ5DU JT6M 1279 50.230 VE3WCC
03160558 UZ5DU JT6M 1139 50.230 OH7HXB
03230935 UT3UA K050GH>JN78CJ 1199 OEMPL
03232018 UZ5DU KN18MD>J001FN 1655 G3VYF
03282154 UT3UA JT6M 2S -4 DB 871 230 YO2NAA
03300922 UT3UA JT6M MS SERGEY 1744 J SM7CMV

WALES

03290923 GW8IZR IO73TI>J059 1161 230 LA4ANA

SPAIN

03161646 EA7DUD IN73>IM76 754 50.230 EB1BMO
03191228 EA2BCU IN91>J042 1435 230 J DK1XAM

03220839 EA3GKJ JN01INJ>JN129J 1288 IS0GQX
03220926 EA7DUD IM76SR>JN49QH 1229 EA5EF
03300931 EA7HG IM99>IM87 282 50.150 G3VYF
03301159 EA5EF 1122 50.230

SYALBARD

03021954 JW5SIX 1778 50.046 B OH6CT
03022104 JW5SIX 579 2385 50.046 B SM2DR
03141755 JW7SIX 589 1778 50.047 B OH8XA
03261818 JW5SIX 59 1778 50.048 B OH7HXB
03261818 JW7SIX 529 1778 50.048 B OH7HXB
03271726 JW7SIX STRONG ES 1778 50.048 B OH7HXB
03271729 JW9SIX 1778 50.049 B OH7HXB

03281726 JW7SIX 579 JQ68>KP04 1562 B SM2A

03281730 JW7SIX 559 1778 50.048 B OH7HXB

03281738 JW5SIX 559 1778 50.046 B OH7HXB

03281747 JW5SIX 559 JQ94LM>KP04NP B SM2A

03282182 JW7SIX STRONG ES 1778 047 B OH7HXB

03282038 JW5SIX GOOD SIGNAL 1778 046 B OH7HXB

ALASKA

03090514 KL7NO >FN44 50.125 W K1TOL

BAHAMAS

03031721 C6AEP S5 FL16HS>FM18LL 1302 B N3DB

03242132 C6AEP 338C ABACO 544 50.040 B KE4WBO

03261624 C6AEP 448C ABACO 544 50.040 B KE4WBO

03280148 VE6EMU 55A DO22>CN88 718

03280310 VE6NA 55A DO20 1012 50.125

SWEDEN

03091503 SM0EPO CQ 418 50.230 LA8NK

03291013 SM4ANQ JT6M JP70>J090 1161 J SP9HNY

03131407 SM7CMV JT6M JAP>JN19WT 948 F6EBH

03132052 SM0EPO JO89>J090 1030 222 J SP9HNY

03151003 SM0EPO CQ JT6M 1744 50.230 UT3UA

03151643 SMOEPO JO42FT 423 50.230 DK1XAM

03220757 SM3BIU JP73>JN78 1679 -230 OE5MPL

03281056 SM7CMV FINE BURSTS 50.230 J HA2RD

03281825 SM2AU 897 50.100 W OH7HXB

03290749 SM3BIU JT6M MS 707 50.230 J SP9HNY

03262230 VE2XX AU 317 50.130 W N1BUG

03270259 VE2XX 51A FN07>EN43 1033 KA9FOX

03272107 VA2FNT FN45 AU 1121 50.125 N8JX

03272132 VE2LCM 55A FN07>FN46 616 N8JX

03272238 VE2XX CQ AU 317 50.135 N1BUG

03280149 VE2XX 52A FN07>EN44 983 125 K9MU

CANADA, Quebec

03231302 VE2RA CQ 983 50.125 WZ8D

03260949 VE2YAT 41A FN07>FO40 671 B VE2XX

03261619 VE2YAT 41A FN07>FO40 671 B VE2XX

03262208 VE2XX CW>EN64 1104 50.125 N8JX

03262230 VE2XX AU 317 50.130 W N1BUG

03272107 VA2FNT FN45 AU 1121 50.125 N8JX

03272213 VE2LCM 55A FN07>FN46 616 N8JX

03272238 VE2XX CQ AU 317 50.135 N1BUG

03280149 VE2XX 52A FN07>EN44 983 125 K9MU

CANADA, Ontario

03011300 VE3CRU FN03>EM89 555 50.146 WZ8D

03090520 VE3EN CQ A 1104 50.125 VA2WDO

03172307 VE3CRU 473 50.125 AB3BK

03192128 VE3WCC 519 FN15>EM79 934 B W8IF

03200029 VE3WCC 419 FN15>EM89 828 B VE2XX

03201400 VE3WCC 319 FN07>FN15 269 B VE2XX

03222313 VE3WCC FN15>EM89 828 50.009 B WZ8D

03231245 VE3WCC 529 FN15>EM89 828 B WZ8D

03231318 VE3/W4TAA BILL 552 50.126 WZ8D

03232346 VE3/W4TAA FN15>FN03 273 125 VE3CRU

03262221 VE3/W4TAA FN15>EN64 793 126 N8JX

03272124 VE3NQ CC 55A FN07>FN13 471 100 VE2XX

03272139 VE3EGC 52A FN07>EN76 468 N8JX

03272149 VE3EGC EN76 AU 686 50.099 N8JX

03300009 VE3/WATAA 529 W/W9DR/4 1126 W8IF

03300013 VE3/WATAA 529 W/W9DR/4 1126 W8IF

03311156 VE3/WATAA SSB 1566 50.125 VA3DX

03311227 VE3/W4TAA 57 FN15>FN03 273 VE3CRU

Reports of North America

North Atlantic Waters

050.110 PY2REK

50.110 S PY2PC

50.110 W9DRA/4

CANADA, Northern

50.036 B K1TOL

50.036 B WZ8D

50.036 B K9PPY

50.036 B K1TOL

50.036 B WZ8D

50.036 B K9PPY

50.036 B K1TOL

50.036 B WZ8D

50.036 B K9PPY

50.036 B K1TOL

50.036 B WZ8D

50.036 B K9PPY

CANADA, Manitoba

50.036 B K1TOL

50.036 B WZ8D

50.036 B K9PPY

50.036 B K1TOL

50.036 B WZ8D

50.036 B K9PPY

50.036 B K1TOL

50.036 B WZ8D

50.036 B K9PPY

50.036 B K1TOL

50.036 B WZ8D

50.036 B K9PPY

CANADA, Alberta

50.051 B N1BUG

CANADA, Eastern

50.041 B N1BUG

03102139 VP8NNO -22DB EME
03112254 VP8NNO 13007 50.190 J W7GJ
50.196 J PE1BTX

FRENCH GUIANA
03110302 FY7THF 539>GH13DW 2485 .040 B PY9MP
03140052 FY7THF 529 3804 50.039 B PY5HOT

GALAPagos IS.
03030227 HC8N 3548 50.100 N4CBSS

PARAGUAY
03011838 ZP5AA GG14 1018 50.024 LW1DZ
03170058 OA4B 539>GG46IP 3046 50.036 B LU3EE
03170058 OA4B 539>GG46IP 2968 50.036 B PY5EW

TRINIDAD & TOBAGO
03040030 9Y4AT 539>GG46IP 3909 .015 B PY5EW
03040119 9Z4AMA 57 ANDY>GG46IP .110 PY5EW
03050056 9Y4AT 539, 559860328 4523 B PY5HOT
03050102 9Z4AMA 55>GG46IP 3909 .110 PY5HOT
03130215 9Y4AT 529>GG46IP 3909 .015 B PY5EW
03140052 9Y4AT 539 4523 50.015 B PY5HOT
03170059 9Y4AT 519>GG46IP 3909 .015 B PY5EW

URUGUAY
03162209 CX2CC 5464 50.110 H FM5AA
03010104 YV51AL 51>GG65 4565 50.110 PY2REK
03010109 YV5ESN 55>GG65 4565 50.110 PY2REK
0301301 YV51AL 57 5112 50.110 LU6HTR
03040032 YV51AL 52>GG46IP 4228 .025 B PY5EW
03040037 YV4AB 519>GG46IP 4228 .025 B PY5EW
03040043 YV51AL WEAK>GG65 4565 .110 PY2REK
03040056 YV5ESN 4839 50.110 W PY5EW
03040056 YV5ESN 53>GG65 4565 50.110 PY2REK
03040059 YV4AB 519>GG65OT 4565 .025 B PY2REK
0304128 YV51AL CQ 4839 50.110 PY5EW
03050056 YV4AB 529 4839 50.025 B PY5HOT
03050103 YV51AL 4839 50.110 PY5HOT
03130216 YV4AB 559>GG46IP 4228 .025 B PY5EW
03170052 YV4AB 539>GG46IP 4228 .025 B PY5EW
03301909 YV5TA 3426 50.025 B PY2REK
N3SRR

Lyrid Meteor Shower

The Lyrid meteor stream is associated with periodic comet Thatcher, which follows an orbit tilted nearly 80 degrees with respect to the plane of solar system. Because the comet spends most of its time well away from the planets, its orbit is not greatly influenced by gravitational perturbation from them. As a result, its debris stream has remained stable and the Lyrid shower has been observed for at least 2600 years. Chinese records from 687 B.C. described "stars that fell like rain." This makes it the oldest recorded meteor shower.

Lyrids meteors encounter the atmosphere faster than 49 km/s and their trails are typically nearly as bright as the main stars in the Big Dipper. The shower has a brief maximum when observers can expect to see one or two trails every few minutes. That peak lasts for less than a day (between April 20-22), but there will be more meteors than usual visible for a few days on either side of the peak. The radiant is at RA=18h06m, DEC=+33°. The best times to watch for Lyrids is between 3 AM and dawn, but full moon will occur on April 20, limiting visual observation.

This year's Lyrids could surprise us, or not. In 1982 the hourly rate reached 90 for a single hour. In 1922 a brief outburst of 100 per hour was seen and on April 20 1803, observers counted over 167 meteors in about 15 minutes.

Weak Signal Propagation Reporter

Joe Taylor, K1JT, has announced a Beta Release of WSPR v0.5. This program implements transmitting and receiving for a digital soundcard mode called "MEPT_JT", an acronym for "Manned Experimental Propagation Tests, by K1JT". This is the initial release of a GUI-based version of the program. An earlier command-line version of the program is also available from <http://physics.princeton.edu/pulsar/K1JT/>.

6W1SJ: via T93Y
8P9TS: via G0TSM
A52VE: via JF1OCQ
A7/G0MKT: direct or bureau via NM7H
C6AYM: via K9GY
KH7Y: Fred K. Honnold, P.O. Box 1443, Keaau, HI 96749-1443
KL7DX: via AC7DX
P40ZB: via K9WZB
V3/K7BV: via W1JJ
VP2M: direct only via G4DFI

"At present, WSPR is a stand-alone executable, independent of WSJT. It is functional for both transmitting and receiving, but it has no frills. It is executed from a Windows command prompt. Like WSJT, WSPR uses a computer sound card to generate audio tones to modulate a SSB transceiver operating on upper

sideband. In receive mode the sound card digitizes audio from the transceiver. The program scans a 200 Hz passband (the "QRSS window") looking for MEPT_JT signals, and decodes them. Basic operating instructions for the initial release can be found in the file WSPR_Instructions.TXT.

Basic specifications of the MEPT_JT mode are as follows:

1. Transmitted message: callsign + 4-character-locator + dBm. Example: "K1JT FN20 30"
2. Message length after lossless compression: 28 bits for callsign, 15 for locator, 7 for power level ==> 50 bits total.
3. Forward error correction (FEC): long-constraint convolutional code, K=32, r=1/2.
4. Number of channel symbols: =(50+K-1)*2=162
5. Keying rate: 12000/8192 = 1.46 baud
6. Modulation: continuous phase 4-FSK. Tone separation 1.46 Hz.
7. Synchronization: 162-bit pseudo-random sync vector
8. Date structure: each channel symbol conveys one sync bit and one data bit.
9. Duration of transmission: 162*8192/12000=110.6 s
10. Transmissions start two seconds into an even UTC minute.
11. Occupied bandwidth: about 6 Hz
12. Minimum S/N for reception: around -27 dB on the WSJT scale (2500 Hz reference bandwidth).

In normal operation WSPR displays information every two minutes and is silent otherwise. In transmit mode it prints a single line when a new transmission starts. In receive mode the program looks for all detectable MEPT_JT signals in a 200 Hz passband, decodes them, and displays the results. If nothing is decoded, nothing will be printed. In T/R mode the program alternates in a randomized way between transmit and receive sequences.

Like JT65, MEPT_JT includes very efficient data compression and strong forward error correction. Received messages are nearly always exactly the same as the transmitted message, or else they are left blank."

(The current release of WSJT is vs 5.9.7. WSJT is a computer program for VHF/UHF communications using state-of-the-art digital techniques. It can decode fraction-of-a-second meteor bursts as well as steady signals more than 10 dB weaker than those required for conventional CW.)